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PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,654		10/17/2003	Kyoung-Ju Shin	P3053/VSN	9816
41943	7590	07/17/2006		EXAMINER	
GWIPS			PATEL, RITA RAMESH		
PETER T. K				APTIBUT	DADED MIMDED
P.O. BOX 2.	31630			ART UNIT	PAPER NUMBER
CENTERVILLE, VA 20120				1746	
				DATE MAILED: 07/17/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/686,654	SHIN, KYOUNG-JU				
Office A	Action Summary	Examiner	Art Unit				
		Rita R. Patel	1746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHICHEVER IS L - Extensions of time may after SIX (6) MONTHS - If NO period for reply is - Failure to reply within the Any reply received by the	TATUTORY PERIOD FOR REPLY ONGER, FROM THE MAILING DATE of the available under the provisions of 37 CFR 1.13 from the mailing date of this communication. specified above, the maximum statutory period views set or extended period for reply will, by statute, the Office later than three months after the mailing sustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) Responsive	to communication(s) filed on 17 O	<u>ctober 2003</u> .					
,	This action is FINAL . 2b)⊠ This action is non-final.						
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	S						
4a) Of the ab 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-3</u> 7) ☐ Claim(s)							
Application Papers							
10) The drawing Applicant ma Replacement	ation is objected to by the Examine (s) filed on 17 October 2003 is/are: y not request that any objection to the drawing sheet(s) including the correct declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S	.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References	Cited (PTO-892) on's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
	re Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)				

DETAILED ACTION

Drawings

The drawings received 10/17/03 are acceptable for examination purposes.

Specification

The disclosure is objected to because of the following informalities: on page 2 of the Specification, under the section titled *Summary of the Invention*, the term "optionallyattached" is used, it appears to be a misspelling of the terms "optionally attached". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: positioning of the steam generation device in relation to the engine and compressor of the car.

Art Unit: 1746

Claim Rejections - 35 USC § 102 / 35 USC § 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Palmer (US Patent No. 4,158,248).

Palmer teaches a mobile cleaning unit mounted within a vehicle which includes an engine 8, pump 22, water pump 30, belts 22, 26, conduits 52, 64, 66, heater 46, spray nozzle 48 and vacuum head 50 for emitting steamed cleaning solution therefrom and collecting means by way of the vacuum head. The belts 22, 26 are used to connectively run between the engine and pump assemblies. Pumps 22, 30, inlet conduit 52, and outlet conduit 66 of Palmer read on applicant's claim for a compressor with an inhalation hole and a discharge hole. Heater 46 receives cleaning solution via conduit 66, as seen in Figure 1, and creates steam from this solution; this reads on applicant's claim for a steam generation device. Also, switches 93, 94, 96 are mounted,

Application/Control Number: 10/686,654 Page 4

Art Unit: 1746

as seen in Figure 2, for operating said cleaning apparatus. The pumps of Palmer reads on applicant's claims for a compressor because the pumps of Palmer teach manipulation of the cleaning solution therein by means of compression; these pump means create a negative pressure and thus deliver pressurized cleaning solution therefrom (col. 3, lines 39-40; col. 4, lines 10-13, 24-27). However, in the alternative, it would also have been obvious to one of ordinary skill in the art at the time of the invention to use a compressor in Palmer for compressing the liquid and for application at an increased pressure. A cleaning solution that is compressed prior to being sprayed onto the surface to be cleaned will provide increasingly more effective cleaning by heating up into a steamed solution quicker and once sprayed, dislodge particles more forcefully.

Re applicant's claim for an injector having a connection hose which can be attached to the discharge hole, the Office provides the following definition for the injector apparatus to establish a common definition of the term injector: a device for forcing water into a steam boiler ("injector". Collins English Dictionary (2000). Retrieved 06 July 2006, from xreferplus. http://www.xreferplus.com/entry/2658053). Thus, in accordance to said definition and applicant's disclosure, Palmer's teaching of the conduit 66, attached to heater 46 reads on applicant's claim for an injector. Palmer's conduit 66 transports a pressurized cleaning solution from the pumps 22, 30 to the heater 46 to be heated into steam.

Application/Control Number: 10/686,654

Art Unit: 1746

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Palmer as applied to claim 1 above, and further in view of Sousa et al. herein referred to as "Sousa" (US Patent No. 5,189,753).

Palmer teaches the claimed invention except fails to explicitly teach a filter within said vacuum accessory attached thereunto the car washing apparatus. Sousa, however, teaches a central vacuum cleaning assembly adapted for use in a vehicle such as an automobile, including a waste collection chamber 10, an air withdrawal chamber 11. It includes an air inlet port 12 and an outlet for filtered air to the atmosphere 13. A conventional latch means 14 is used for convenient joining or detaching of the two main portions to form the assembly. This assembly is then easily adapted, by conventional easily detachable retaining means, such as clip or snap means, for installation in a vehicle, quick detachment after removal from a vehicle, and for cleaning of the air filter means 15 (shown in Fig 4; Abstract). It would have been obvious to one of ordinary skill in the art at the time of the invention to use a filtered vacuum accessory in Palmer, as taught by Sousa, with expectation of providing a complete cleansing sequence for an automobile; filtered vacuuming accessories are

Application/Control Number: 10/686,654

Art Unit: 1746

commonly used in the art for separating wastes from the cleaning solution which may

have been picked up from the car after washing.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Rita R. Patel whose telephone number is (571) 272-

8701. The examiner can normally be reached on M-F: 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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RRP

MICHAEL BARR SUPERYISORY PATENT EXAMINER

Page 6